Ontario

Ministry of
Northern Development
and Mines

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

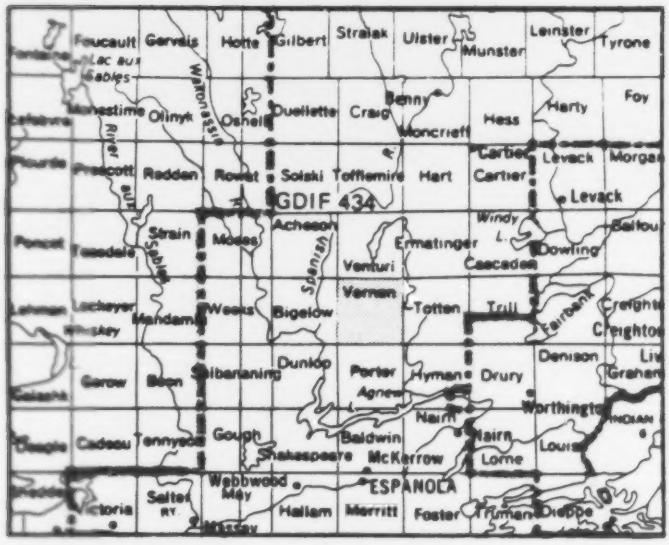
GEOLOGICAL DATA INVENTORY FOLIO

GDIF 434

VERNON TOWNSHIP

DISTRICT OF SUDBURY

Compiled by the Staff of
the Resident Geologist's Office
Sudbury



LOCATION MAP Scale: 1:1 013 760 or 1 inch to 16 miles

88-02296/

NTS Number 41 I/12

Mining Claim Map Number M.1171

STATEMENT: This inventory is unedited. Discrepancies may occur for which the Ontario Geological Survey does not assume liability. Information from this source may be quoted if credit is given. Reference to this inventory should be made as follows:

Ontario Geological Survey

1988: Vernon Township, District of Sudbury; Ontario Geological Survey, Geological Data Inventory Folio 434, compiled by the staff of the Resident Geologist's Office in Sudbury, 17p., 2 maps.

Original Compilation by: Jerome, Lucille, August 1987

Date	Page Revised	Revised by

Date	Page Revised	Revised by

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ACCOMPANYING MAPS

Property Location Map 1
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Map Scale 1: 31 680 or 1 inch to ½ mile

CONVERSION FACTORS FOR MEASUREMENTS IN ONTARIO GEOLOGICAL SURVEY PUBLICATIONS

If the reader wishes to convert imperial units to SI (metric) units or SI units to imperial units the following multipliers should be used:

CONVERSION FROM SI TO IMPERIAL			CONVERSION FROM IMPERIAL TO SI		
SI Unit	*Multiplied by*	*Gives*	*Imperial Unit*	*Multiplied by*	*Gives*
		LENGTH			
1 mm	0.039 37	inches	1 inch	**25.4**	mm
1 cm	0.393 70	inches	1 inch	**2.54**	cm
1 m	3.280 84	feet	1 foot	**0.304 8**	m
1 m	0.049 709 7	chains	1 chain	20.116 8	m
1 km	0.621 371	miles (statute)	1 mile (statute)	**1.609 344**	km
		AREA			
1 cm^2	0.155 0	square inches	1 square inch	**6.451 6**	cm^2
1 m^2	10.763 9	square feet	1 square foot	**0.092 903 04**	m^2
1 km^2	0.386 10	square miles	1 square mile	2.589 988	km^2
1 ha	2.471 054	acres	1 acre	0.404 685 6	ha
		VOLUME			
1 cm^3	0.061 02	cubic inches	1 cubic inch	**16.387 064**	cm^3
1 m^3	35.314 7	cubic feet	1 cubic foot	0.028 316 85	m^3
1 m^3	1.308 0	cubic yards	1 cubic yard	0.764 555	m^3
		CAPACITY			
1 L	1.759 755	pints	1 pint	0.568 261	L
1 L	0.879 877	quarts	1 quart	1.136 522	L
1 L	0.219 969	gallons	1 gallon	**4.546 090**	L
		MASS			
1 g	0.035 273 96	ounces (avdp)	1 ounce (avdp)	28.349 523	g
1 g	0.032 150 75	ounces (troy)	1 ounce (troy)	**31.103 476 8**	g
1 kg	2.204 62	pounds (avdp)	1 pound (avdp)	**0.453 592 37**	kg
1 kg	0.001 102 3	tons (short)	1 ton (short)	**907.184 74**	kg
1 t	1.102 311	tons (short)	1 ton (short)	**0.907 184 74**	t
1 kg	0.000 984 21	tons (long)	1 ton (long)	**1016.046 908 8**	kg
1 t	0.984 206 5	tons (long)	1 ton (long)	**1.016 046 908 8**	t
		CONCENTRATION			
1 g/t	0.029 166 6	ounce (troy)/ ton (short)	1 ounce (troy)/ ton (short)	34.285 714 2	g/t
1 g/t	0.583 333 33	pennyweights/ ton (short)	1 pennyweight/ ton (short)	1.714 285 7	g/t

OTHER USEFUL CONVERSION FACTORS

1 ounce (troy)/ton (short)	20.0	pennyweights/ton (short)
1 pennyweight/ton (short)	0.05	ounce (troy)/ton (short)

One gram(g) per tonne is equivalent to one part per million (1 ppm).

NOTE–Conversion factors which are in bold type are exact. The conversion factors have been taken from or have been derived from factors given in the Metric Practice Guide for the Canadian Mining and Metallurgical Industries published by The Mining Association of Canada in co-operation with the Coal Association of Canada.

DATA SOURCES CHECK LIST

NOTE: The following sources have been searched to compile the data for this area. If no reference data was found the appropriate box is marked 'no'; if reference data was found, the box is marked 'yes'.

All reference data found are included in the following pages. If the box is blank, the data source has not yet been searched. If the box is marked N.A., the source item is Not Applicable to this area and therefore not searched.

	SOURCES OF DATA	Data	Initial
1	Resident Geologist's Office Files	Yes	L.J.
2	Assessment Files Research Office, Toronto	N.A.	L.J.
3	ODM General Index; 9 Volumes	Yes	L.J.
4	Catalogue of Airborne Geophysical Surveys (ODM)	Yes	L.J.
5	ODM Mineral Resources Circulars and OGS Mineral Deposits Circulars	No	L.J.
6	ODM Industrial Mineral Reports	No	L.J.
7	Bibliography of Post Precambrian Theses - Karrow (ODM MP 1)	No	L.J.
8	Bibliography of Precambrian Theses - Ginn (ODM MP 2)	Yes	L.J.
9	Newspaper Clippings File	No	L.J.
10	GSC Index to Publications	Yes	L.J.
11	OGS Index to Published Maps and Reports - MP 77 and Supplements to MP 77	Yes	L.J.
12	OGS Index Maps	Yes	L.J.
13	Source Mineral Deposit Records (O.G.S.)	Yes	L.J.
14	Author - Subject Articles File	Yes	L.J.
15	Miscellaneous Papers: ODM & OGS	Yes	L.J.
16	ODM Geological Circulars: OGS Study Series	Yes	L.J.
17	ODM Preliminary Reports: ODM Bulletins	Yes	L.J.
18	ODM – OGS Open File Reports	Yes	L.J.
19	OGS Northern Ontario Engineering Geology Terrain Studies	Yes	L.J.
20	OGS Aggregate Resources Inventory Papers	No	L.J.
21	OGS Mineral Potential Maps	Yes	L.J.
22	Theses on File, Sudbury	Yes	L.J.
23	Aerial Photographs on File, Sudbury	Yes	L.J.

METALS AND MINERALS REFERENCES LIST

- △ anh. . . . . .Anhydrite
- △ ank. . . . . .Ankerite
- △ anna . . . . . Annabergite
- △ ap. . . . . .Apatite
- △ arg . . . . . Argentite
- △ As . . . . . .Arsenic
- △ asp . . . . . .Arsenopyrite
- △ asb . . . . . .Asbestos
- △ ba. . . . . .Barite
- △ be. . . . . .Beryl
- △ Bi. . . . . .Bismuth
- △ bn . . . . . .Bornite
- △ bran . . . . . .Brannerite
- △ bruc . . . . . .Brucite
- △ Cd . . . . . Cadmium
- △ calc. . . . . .Calcite
- △ carb . . . . . .Carbonate
- △ cel . . . . . .Celestite
- △ cc. . . . . .Chalcocite
- △ cp. . . . . .Chalcopyrite
- △ ch. . . . . .Chert
- △ clay . . . . . .Clay
- △ Co . . . . . Cobalt
- △ cob. . . . . Cobaltite
- △ cb. . . . . .Columbite
- ▲ Cu . . . . . .Copper
- △ cor . . . . . Corundum
- △ dol . . . . . Dolomite
- △ ep. . . . . Epidote
- △ ery . . . . . Erythrite
- △ fel . . . . . .Feldspar
- △ fl . . . . . .Fluorite (flurospar)
- △ fu. . . . . .Fuchsite
- △ gn. . . . . .Galena
- △ gt . . . . . .Garnet
- △ goe . . . . . .Goethite
- △ Au . . . . . Gold
- △ gf . . . . . .Graphite
- △ gl . . . . . Gravel
- △ gyp. . . . . .Gypsum
- △ hem . . . . . Hematite
- △ il . . . . . .Ilmenite
- △ Fe . . . . . .Iron
- △ IF. . . . . Iron Formation
- △ jas . . . . . Jasper
- △ kaol . . . . . .Kaolinite (kaolin)
- △ ky . . . . . Kyanite
- ▲ Pb . . . . . Lead
- △ lim . . . . . Limonite
- △ Li. . . . . Lithium
- △ mgst . . . . . Magnesite
- △ mag . . . . . Magnetite
- △ mc . . . . . Malachite
- △ Mn . . . . . Manganese
- ▲ mb . . . . . Marble
- △ mar. . . . . Marcasite
- △ ma . . . . . .Marl
- △ mi . . . . . Mica
- △ ml . . . . . Millerite
- △ mo . . . . . Molybdenite
- △ Mo . . . . . .Molybdenum
- △ mon . . . . . Monazite
- △ ne. . . . . Nephelite (nepheline)
- △ nc. . . . . .Niccolite
- △ Ni. . . . . Nickel
- △ Nb . . . . . .Niobium
- △ Pd . . . . . Palladium
- △ peat . . . . . .Peat
- △ pent . . . . . .Pentlandite
- △ Pt. . . . . .Platinum
- △ py . . . . . .Pyrite
- △ pyl . . . . . Pyrochlore
- △ pyrl . . . . . .Pyrolusite
- △ po . . . . . .Pyrrhotite
- △ q . . . . . Quartz
- △ qcv . . . . .Quartz carbonate vein
- △ ra. . . . . .Radioactive minerals
- △ RE . . . . . .Rare Earths
- △ sd. . . . . Sand
- △ sgl . . . . . Sand and gravel
- △ ss . . . . . .Sandstone
- △ scap . . . . . Scapolite
- △ shee . . . . . .Scheelite
- △ serp . . . . . Serpentine
- △ sh. . . . . Shale
- △ sid . . . . . Siderite
- △ si . . . . . Silica
- △ Ag . . . . . .Silver
- △ sl . . . . . Slate
- △ sm . . . . . .Smaltite
- △ sod . . . . . Sodalite
- △ spec . . . . . Specularite
- △ sp. . . . . .Sphalerite
- △ spd . . . . . .Spodumene
- △ staur . . . . . .Staurolite
- △ stib. . . . . Stibnite
- △ st . . . . . .Stone
- △ talc. . . . . .Talc
- △ Te . . . . . .Tellurium
- △ td. . . . . Tetrahedrite
- △ th. . . . . .Thorite
- △ Th . . . . . .Thorium
- △ thuc . . . . . Thucholite
- △ ti . . . . . Titanite
- △ Ti. . . . . Titanium
- △ tour . . . . . .Tourmaline
- △ trap . . . . . .Trap rock
- △ W. . . . . Tungsten
- △ uran . . . . . Uraninite
- △ U . . . . . .Uranium
- △ verm . . . . . .Vermiculite
- △ Y . . . . . Yttrium
- ▲ Zn . . . . . .Zinc
- △ zr. . . . . Zircon

S. . . . . .Sulphide

cv. . . . . .Covellite

Solid triangles indicate metal and mineral occurrences shown on the accompanying maps.

VERNON TOWNSHIP

MINERAL OCCURRENCES

Map Ref. Letter	Name(s)	Mineralization	Source Mineral Deposit Record	References in OGS Mineral Deposits Circulars & OGS Industrial Mineral Reports	Additional References and/or Remarks
A	Texas Gulf Sulphur Co. Ltd.	Cu, Pb, Zn	--	--	O.G.S. Map 2361
B	Vernon Township	mb	--	--	GR 166, p. 212, Chart A

GDIF FORM NO. 1

TYPE OF WORK		Numbers below represent the year in which the work was done; e.g., 68 for 1968.																		
EXPLORATION DATA filed at the RESIDENT GEOLOGIST'S OFFICE SUDBURY COMPANY/AUTHOR (file number)		GEOLOGICAL	GEOCHEMICAL	TRENCHING, STRIPPING	DRILLING	ASSAY DATA	UNDERGROUND WORK	PROSPECTUS, NOTES, CORRESPONDENCE	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETIC	AIRBORNE RADIOMETRIC	GROUND MAGNETOMETER	GROUND ELECTROMAGNETIC	GROUND RADIOMETRIC	INDUCED POLARIZATON	SELF POTENTIAL	RESISTIVITY			
1	Canadian Johns-Manville Co. Ltd. (Vernon 0010)	70										70[1]	70[1]							
2	Canadian Johns-Manville Co. Ltd. (Grigg 0013-C1)							72												
2	Canadian Johns-Manville Co. Ltd. (Porter 0021-A1)	70																		
3	Canadian Johns-Manville Co. Ltd. (Grigg 0013-C1)							72												
3	Canadian Johns-Manville Co. Ltd. (Porter 0021-A1)	70										70[1]	70[1]							
4	Canadian Johns-Manville Co. Ltd. (Porter 0022)								68		68									
5	Ferco Mines Ltd. (Porter 0023-A1)	63						63												
6	Texas Gulf Sulphur Co. Inc. (Vernon 0011-A1)	67																		
7	Texas Gulf Sulphur Co. Inc. (Vernon 0011-B1)				66															

[1] No anomaly reported

VERNON TOWNSHIP

DRILLHOLE SUMMARY

Map Drilling Location Number	Company Name	Company Drillhole Number	Date Drilled	Bearing Azimuth	Initial Dip of Hole	Thickness of Overburden	Total Length of Hole	Mineralization Noted in Log	Assay Data Included for
1	Texas Gulf Sulphur Co.	V-1	1966	300	50	9	351	py, gn, asp, cp, sp, calc	
2		V-2	1966	325	40	8	363	py, calc	
3		V-3	1966	300	50	26	398	py, ba	
4		V-4	1966	90	45	8	339	py, mag	
5		V-5	1966		90	9	369	py	

GDIF FORM NO. 3

AIRBORNE GEOPHYSICAL SURVEY DATA

No.	By / For	Type of Survey	Flight Altitude	Flight Line Direction	Flight Line Spacing
4	Scintrex Canadian Johns-Manville Co. Ltd.	Airborne Magnetic Airborne Radiometric	1000'	N/S	150-200'

GDIF FORM NO. 4

VERNON TOWNSHIP

GEOCHEMICAL SURVEY DATA

Map Sample Site Reference Number	Type of Survey	Analysis For	By	Reference

GDIF FORM NO. 5

MISCELLANEOUS DATA

AGE DATING

Site	Method	Material	Reference	Result

GDIF FORM NO.6

NEWSPAPER CLIPPINGS FILE

NOTE: A file of newspaper clippings about the companies listed below, who have worked in this area, is maintained in the Regional/Resident Geologist's Office.

ODM GENERAL INDEX SEARCH

Words searched:

CANADIAN JOHNS-MANVILLE CO. LTD.
CRAZY CREEK
FERCO MINES LTD.
PORTER CREEK
TEXAS GULF SULPHUR CO. LTD.
TITMOUSE LAKE
VERNON TOWNSHIP

Index Volume	Listing:	Report Volume	Part	Page
4	Canadian Johns-Manville Co. Ltd.			
	Capital; officers; operations	59	2	1
5	Crazy Creek Mines Ltd.			
	Incorporated	68	1	58
6	Texas Gulf Sulphur Co.			
	Licensed	67	1	34
9	Vernon Tp., Sudbury Dist.			
	Geology of the Sudbury-Espanola area	SO16		
	Geology of the Sudbury-Manitoulin area	GR166		

GDIF FORM NO. 8

ODM GENERAL INDEX SEARCH

Words searched:

Index Volume	Listing:	Report Volume	Part	Page

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
		REGIONAL GEOLOGICAL COMPILATION MAPS		
Card, K. D.	1978	Sudbury-Manitoulin Area	O.G.S. Map 2360	1" = 2 miles
Card, K. D., Lumbers, S. B.	1974,75	Sudbury-Cobalt Geological Compilation (revised)	O.G.S. Map 2361	1" = 4 miles
Marmont, C.	1986	Precambrian Geology of Tofflemire, Venturi and Vernon Townships	O.G.S. Map P.2960	1" = ¼ mile
Thomson, J. E.	1961,68	Espanola Sheet	O.D.M. Map P.105	1" = 2 miles
		GEOPHYSICAL MAPS		
G.S.C. - O.D.M.	1965	Aeromagnetic Map - Espanola	1523G	1" = 1 mile
Gupta, V. K.	1981	Bouguer Gravity and Generalized Geological Map of the Sudbury-Onaping Lake Area	O.G.S. Map P.2482	1:100,000
O.D.M. - G.S.C.	1965	Aeromagnetic Map - Sudbury Sheet	7067G	1" = 4 miles
	1976	Uranium Reconnaissance Program Airborne Gamma Ray Spectrometer Survey, Sudbury	Map P.1610	1:250,000
		SURFICIAL, PLEISTOCENE, TERRAIN ENGINEERING		
E.M.R.	1975	Topographic Map, Espanola		1:50,000
	1975	Topographic Map, Cartier		1:50,000
Gartner, J. F.	1980	N.O.E.G.T.S. Data Base Map, Espanola	Map 5002	1:100,000
	1980	N.O.E.G.T. Study 99, Espanola Area		
	1980	N.O.E.G.T.S. Data Base Map, Cartier	Map 5000	1:100,000

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Gartner, J. F., cont'd	1980	N.O.E.G.T. Study 94, Cartier Area		
	1980	N.O.E.G.T.S. General Construction Capability Map, Cartier	Map 5004	1:100,000
Sado, E. V. and Carswell, B. F.	1987	Surficial Geology of Northern Ontario	O.G.S. Map 2518	1:1,200,000
		MINERAL POTENTIAL MAPS		
Springer, J.	1977	Ontario Mineral Potential, Northern Part of Sudbury Sheet and Part of North Bay Sheet	O.G.S. Map P.1512	1:250,000
		GEOCHEMICAL MAPS		
		No data available, August 11, 1987		
		GEOLOGICAL REPORTS AND MAPS		
Adlington, R.	1982	Vernon Township, Sudbury Data Series	P.2549	
Bell, R.	1893	Explorations North of the Manitoulin Island Sheet, Ontario	G.S.C. AR	pp. 33-39
Card, K. D.	1975	Geology of the Panache Lake Area, Dist. of Sudbury and Manitoulin	OFR 5123	
	1978	Sudbury-Manitoulin Area, Districts of Sudbury and Manitoulin	O.D.M. GR166 O.D.M. Map 2360	1" = 2 miles
Card, K. D., Innes, D. G., and Debicki, R. L.	1977	Stratigraphy, Sedimentology and Petrology of the Huronian Supergroup in the Sudbury-Espanola Area	O.G.S. Study 16	

GDIF FORM NO.9

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Chandler, F. W.	1986	Sedimentology and Paleoclimatology of the Huronian (Early Aphebian) Lorrain and Gordon Lake Formations and Their Bearing on Models for Sedimentary Copper Mineralization	G.S.C. Paper 86-1A	pp. 121-132
Collins, W. H.	1925	North Shore of Lake Huron	G.S.C. Mem. 143	
Edgar, A. D.	1986	Geochemistry and Economic Potential of the Nipissing Diabase, Grant No. 100	OFR 5573	
Fralick, P. W., Miall, A. D.	1982	Sedimentology of Huronian Deposits, Including Uranium Bearing Rocks, Grant No. 84	OFR 5375	
Marmont, C.	1986	Geology of Tofflemire, Venturi and Vernon Townships	OFR 5624	
Moore, E. S.	1928	North Shore of Lake Huron	O.D.M. PR 1928-2	
Roscoe, S. M.	1969	Huronian Rocks and Uraniferous Conglomerates in the Canadian Shield	G.S.C. Paper 68-40	
		JOURNAL ARTICLES, THESES, TECHNICAL REPORTS		
Boissonneau, A. N.	1968	Glacial History of Northeastern Ontario II. The Timiskaming-Algoma Area	C.J.E.S. Vol. 5	pp. 97-109
Card, K. D.	1959	The Uranium Bearing Huronian Sediments of the Sudbury District; B.Sc., Queen's University	MP2	
Ginn, R. M.	1960	The Relationship of the Bruce Series to the Granites of the Espanola Area	Sudbury Theses File	
Hadley, D. G.	1968	The Sedimentology of the Huronian Formation Ontario and Quebec	Sudbury Theses File	

SELECTED REFERENCES

Author	Date	Title	Reference	Map Scales and/or Report Pages
Lindsey, D. A.	1969	Glacial Sedimentology of the Precambrian Gowganda Formation Ontario, Canada	Geol. Soc. Amer. Bull. 80	pp. 1685-1702
Long, D. G.	1978	Depositional Environments of a Thick Proterozoic Sandstone: the (Huronian) Mississagi Formation of Ontario, Canada	C.J.E.S. Vol 15	pp. 190-206
McDowell, J. P.	1963	A Paleocurrent Study of the Mississagi Quartzite Along the North Shore of Lake Huron	Sudbury Theses File	
McLennan, S. M., Fryer, B. J., and Young, G. M.	1979	The Geochemistry of the Carbonate-Rich Espanola Formation (Huronian) with Emphasis on Rare Earth Elements	C.J.E.S. Vol. 16	pp. 230-239
Palonen, P. A.	1971	Stratigraphy and Deformational Environment of the Mississagi Formation, Ontario	Sudbury Theses File	
Quirke, T. T.	1915	Geology of Espanola District, Ontario; Ph.D., University of Chicago	MP2	
Siemiatkowska, K. M.	1970	Bibliography of Huronian Geology Covering the Region from Sault Ste. Marie to the Grenville Front	Sudbury Theses File	
Ward, R. C.	1972	Geology of the Huronian Supergroup in the Shiner Syncline, Vernon Township, Sudbury District	Sudbury Theses File	
Young, G. M.	1981	Diamictites of the Early Proterozoic Ramsey Lake and Bruce Formations, North Shore of Lake Huron, Ontario. Earth's Pre-Pleistocene Glacial Record.	Cambridge University Press	pp. 813-816
	1973	Origin of the Carbonate-Rich Early Proterozoic Espanola Formation, Ontario	Geol. Soc. Amer. Bull., Vol. 84	pp. 135-160

GDIF FORM NO. 9

NOTES AND ADDENDA

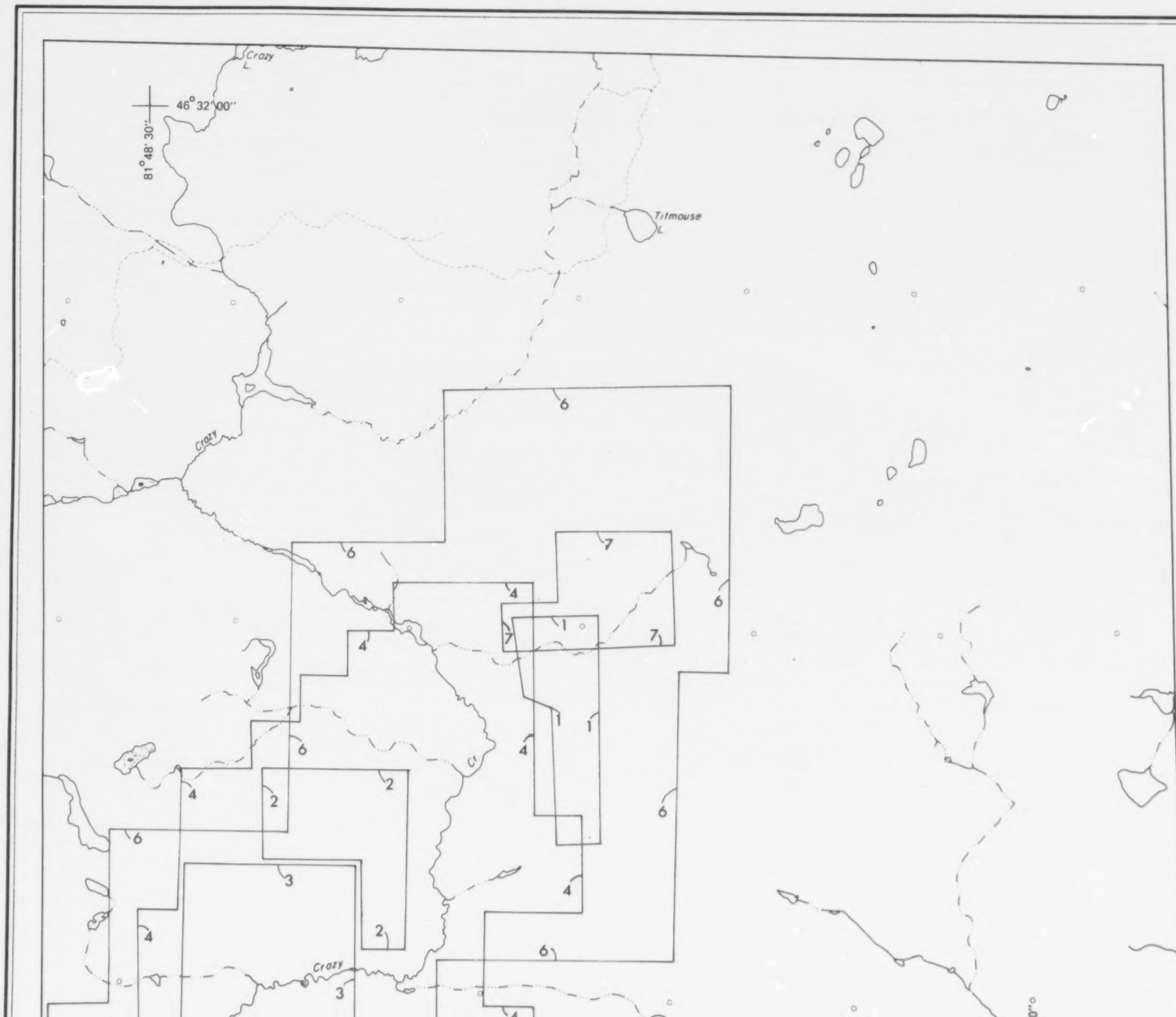
AERIAL PHOTOGRAPHS INDEX

Scale 1" = ½ mile

Sudbury Files

Year	Roll	Line	Number
1973	22	4622	200 - 206
	16	4621	135 - 140
1959	17	4620	117 - 123
	9	4619	108 - 115
1946	24	154	24 - 31
	24	155	14 - 21
	12	157	13 - 16

GDIF FORM NO.10



Ministry o
Northern D
and Mines
Ontario
Sean Conway, M

ONTARIO GEOLO

PROPERTY LO

GEOLOGICAL DATA INV

(Map 1

VERNON TO

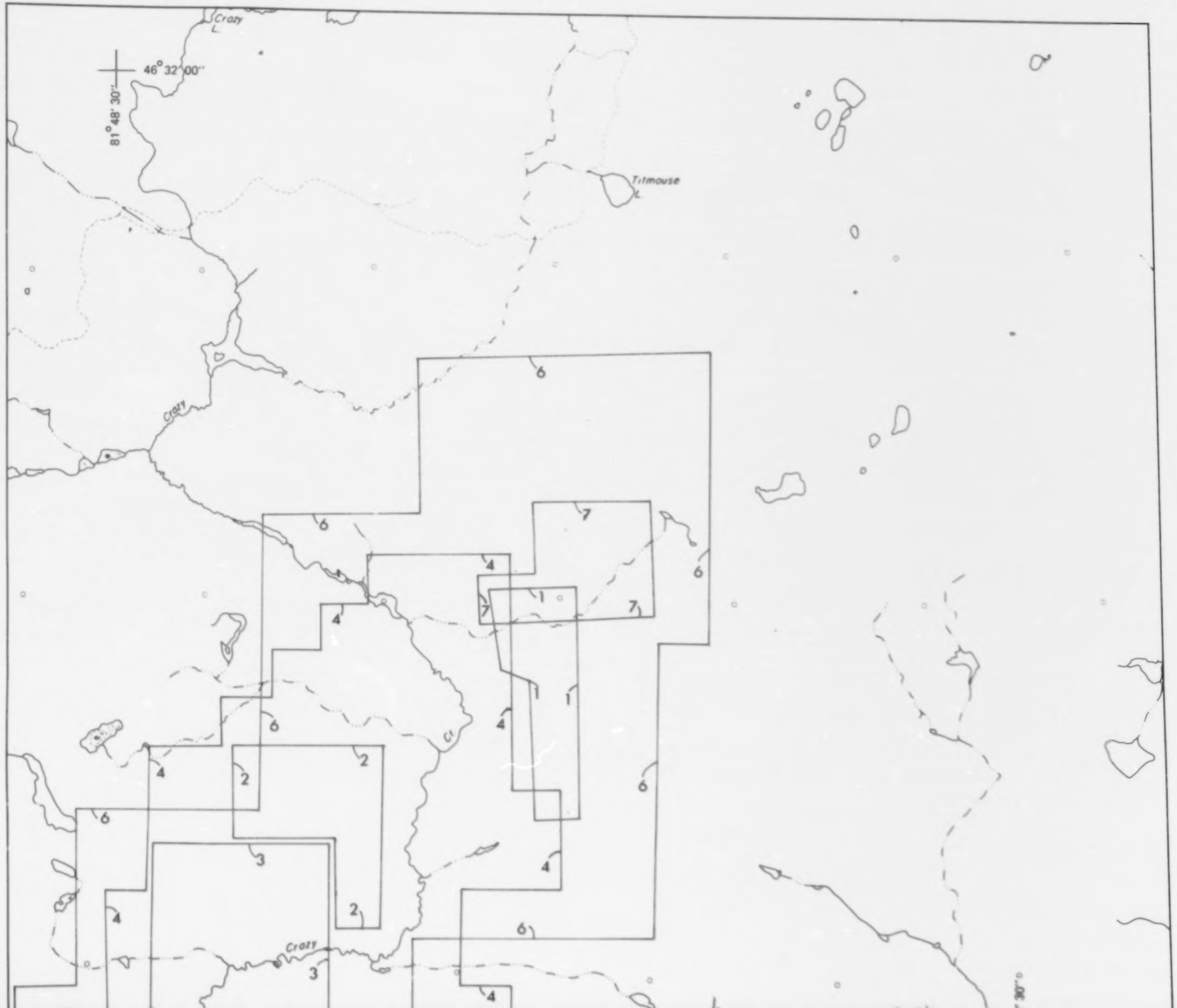
DISTRICT OF

Scale 1:3

Kilometre 0.5 0

Mile 0.5 0

EXPLORATION



Ministry of Northern Development and Mines

Ontario

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

PROPERTY LOCATION MAP

GEOLOGICAL DATA INVENTORY FOLIO **434**

(Map **1** of **2**)

VERNON TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

EXPLORATION DATA FILE AREAS

GEOLOGICAL DATA INV

(Map 1

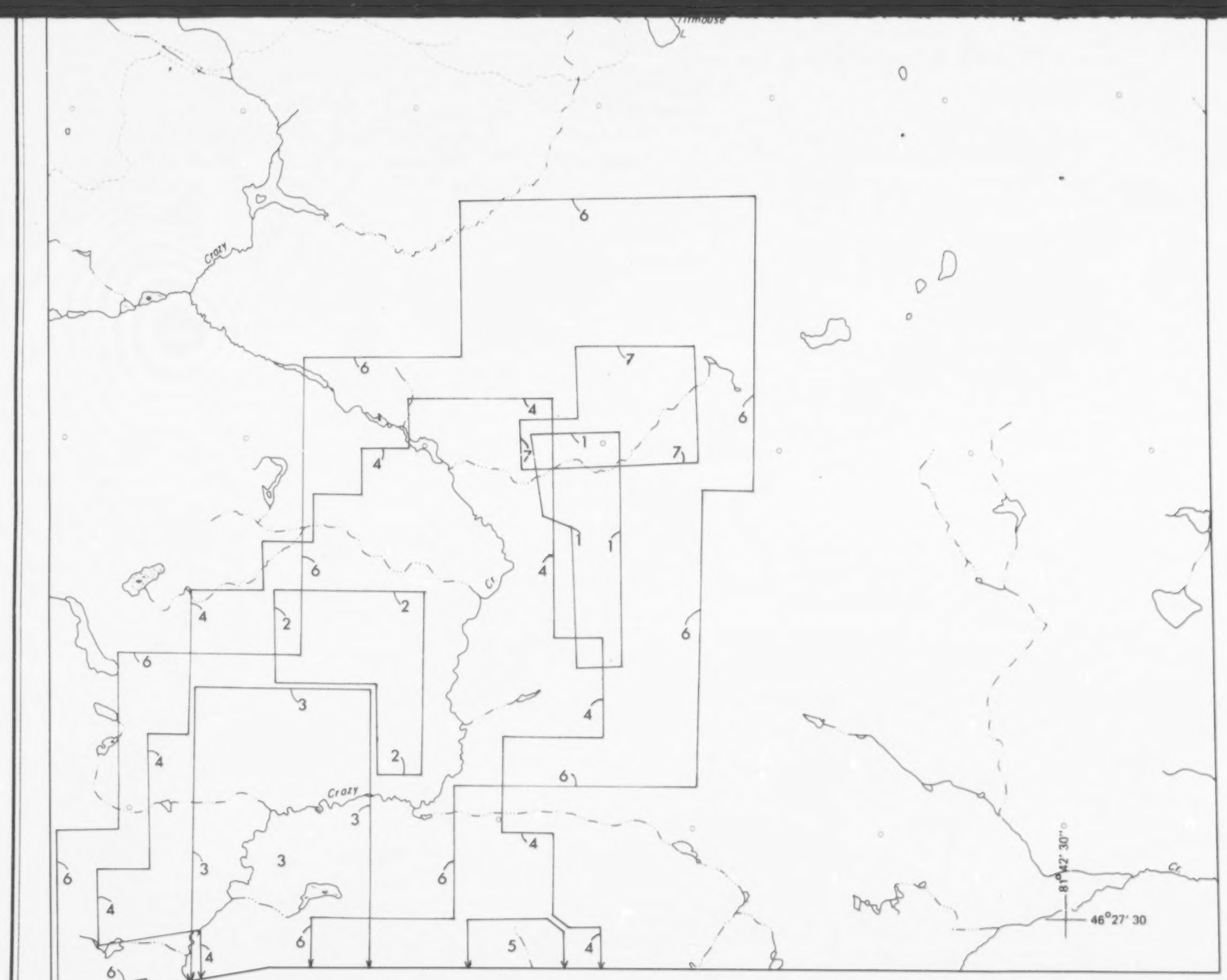
VERNON TO

DISTRICT OF

Scale 1:3

Kilometre 0.5 0

Mile 0.5 0



EXPLORATION D

Reference number is
See listing in text pa

Small area explorati

GEOLOGICAL DATA INVENTORY FOLIO **434**

(Map **1** of 2)

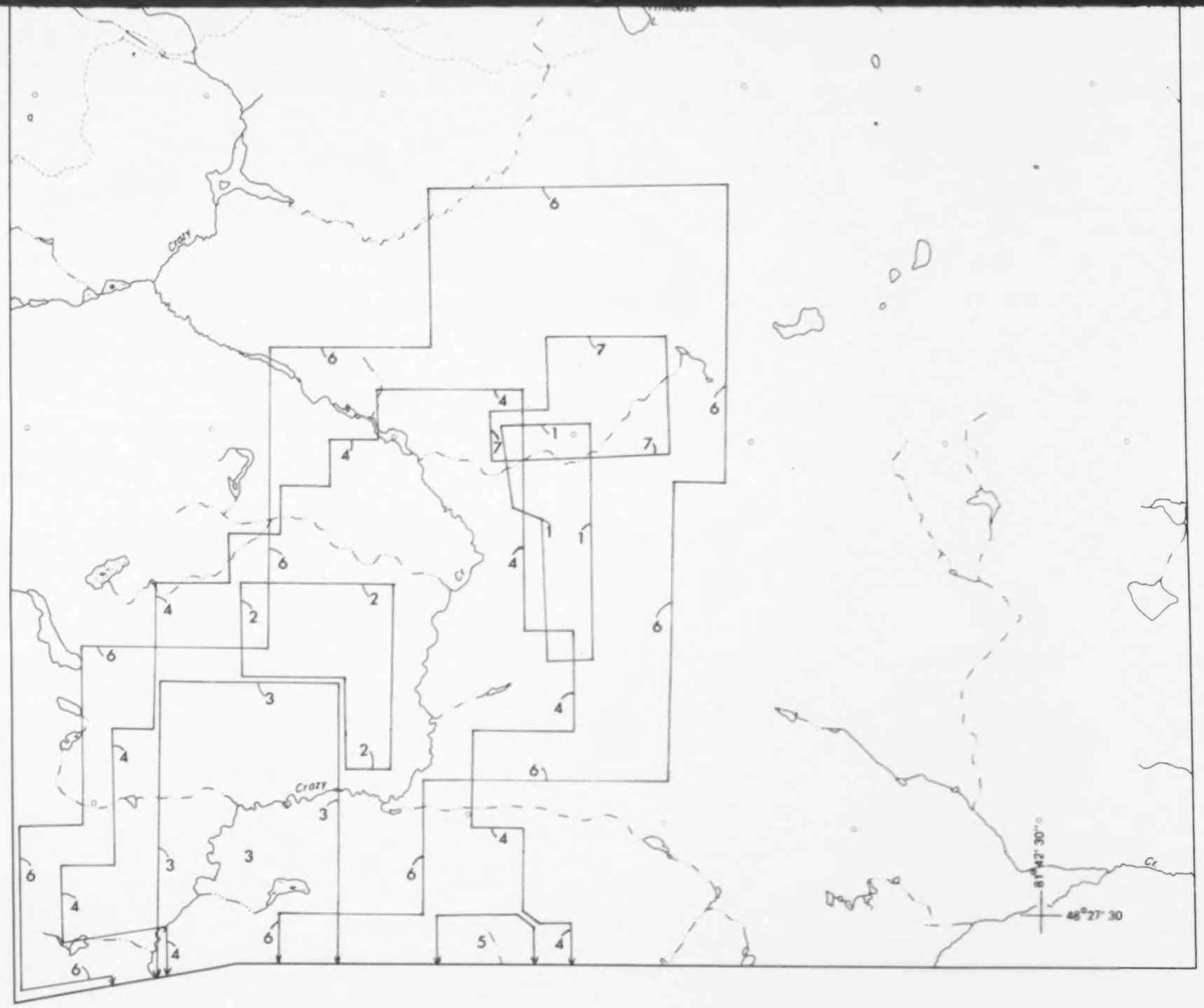
VERNON TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile



EXPLORATION DATA FILE AREAS

■ /① \⑥ Reference number is always inside work area outlined. See listing in text pages.

□ x ④ Small area exploration.

TYPES OF DATA SHOWN ON THIS MAP

GEOCHEMICAL AND GEOCHRONOLOGICAL DATA

- ☐ ◆³ Geochemical sample site, with reference number
- ☐ ◆³ Area of geochemical sampling, with reference number
- ☐ ✳² Age dating material sampling site, with reference number

GEOPHYSICAL ANOMALIES

- ■ —AM— Airborne magnetic anomaly
- ☐ Airborne electromagnetic anomaly
  Length of anomaly along flight line
- ☐ Airborne electromagnetic anomaly
  Location of anomaly along flight line
- ☐ Airborne electromagnetic anomaly
  Conductor axis : definite, probable, possible
- ■ —ARA— Airborne radiometric anomaly
- ☐ —M— Ground magnetic anomaly
- ☐ —VL— Ground electromagnetic anomaly
  (VL - Vertical loop; HL - Horizontal loop;
  VLF - Very low freq; Turam; JEM -
  Crone Em - 16)
- ☐ —RA— Ground radiometric anomaly
- ☐ —IP— Induced polarization anomaly
- ☐ —SP— Self potential anomaly
- ☐ —AFMAG— Audio-frequency magnetic anomaly
  (total intensity)
- ☐ —R— Resistivity anomaly
- ☐ —GR— Gravity anomaly

MISCELLANEOUS DATA

- ☐ Trenching, pit
- ☐ Rock quarry

Ministry of Northern Development and Mines

Ontario

Sean Conway, Minister of Mines

ONTARIO GEOLOGICAL SURVEY

EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 434

(Map 2 of 2)

VERNON TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

Mile 0.5 0 0.5 1 Mile

GEOLOGICAL AND MINING SYMBOLS

TYPES OF DATA SHOWN ON THIS MAP

MINERAL OCCURRENCES

- cp A. — Mineral occurrence at surface, with reference letter
- Au A. 84 — Mineral occurrence with shaft, depth given with reference letter
- Ag A. — Mineral occurrence reported but exact location uncertain, with reference letter
- cp A. — Mineralized float with reference letter

DRILLHOLE

- 2 — Location of single drillhole, with reference number
- 2 — Location of closely spaced group of drillholes, with reference number
- ?2 — Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with

GEOPHYSICAL ANOMALIES

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- □ Airborne electromagnetic anomaly
  Length of anomaly along flight line
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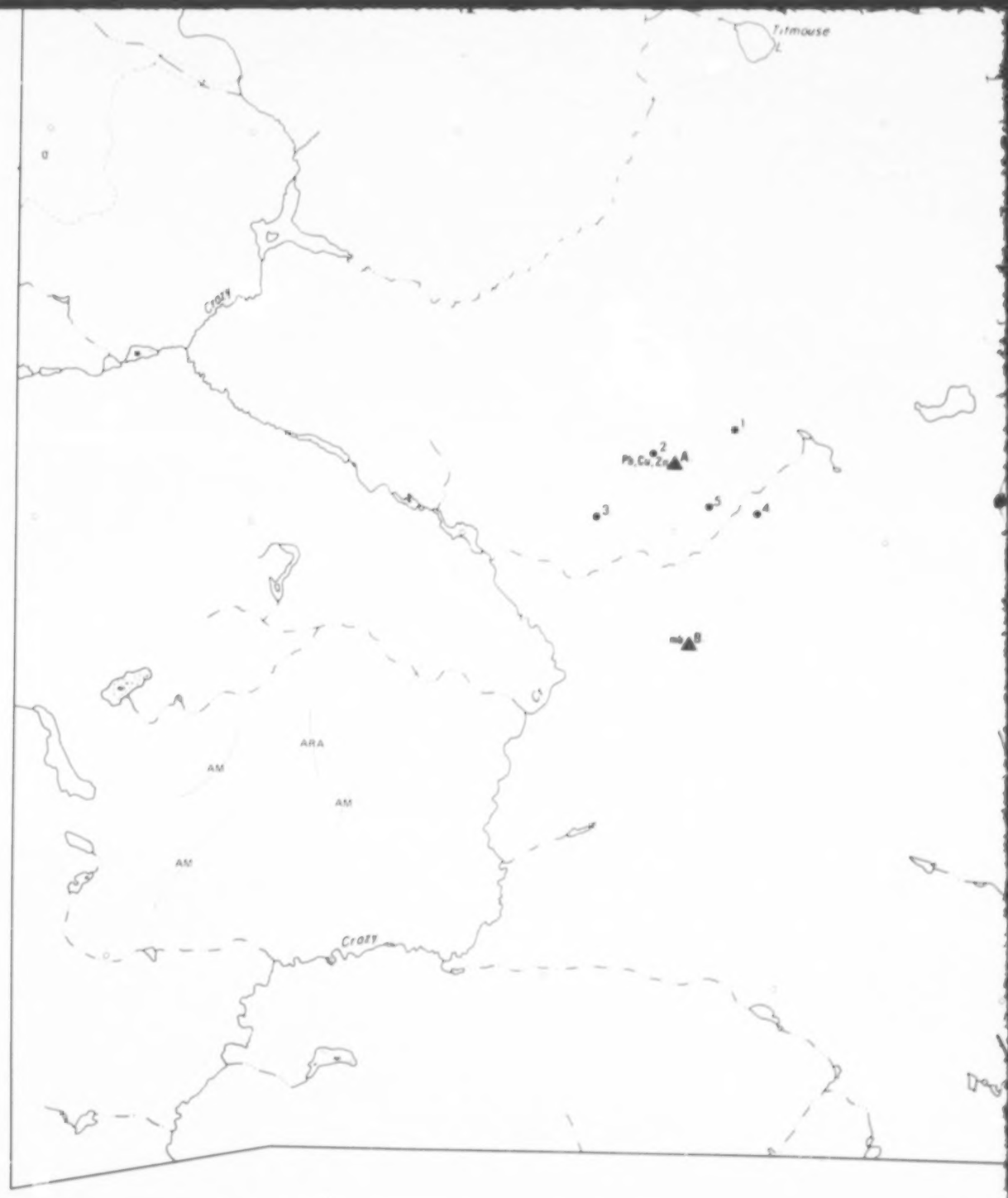
  (total intensity)
- □ —R— Resistivity anomaly
- □ —GR— Gravity anomaly

MISCELLANEOUS DATA

- □ Trenching, pit
- □ Adit
- □ Open pit
- □ Rock quarry
- □ Sand and/or gravel pit

NOTE: Consult the text that accompanies this map for pertinent lists of data, references, and abbreviations.



EXPLORATION DATA MAP

GEOLOGICAL DATA INVENTORY FOLIO 434

(Map 2 of 2)

VERNON TOWNSHIP

DISTRICT OF SUDBURY

Scale 1:31 680

Kilometre 0.5 0 0.5 1 Kilometre

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GEOLOGICAL AND MINING SYMBOLS

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DRILLHOLE

- 2 — Location of single drillhole, with reference number
- 2 — Location of closely spaced group of drillholes, with reference number
- 2 — Drillhole, exact location uncertain, with reference number
- Property with underground drillholes in this general area, with reference number
- 2 — Property with drillholes which have not been plotted on map, with reference number
- 2 — Reverse circulation drillhole; churn drilling, with reference number